

CLAIMS

Claim 1 (Previously Presented) A content reproduction apparatus which reproduces a digital content, the content reproduction apparatus comprising:

a secret information storage unit operable to store a device key, the device key corresponding to the content reproduction apparatus, and the device key being stored in the secret information storage unit such that the device key cannot be accessed from outside of the content reproduction apparatus;

a cryptographic processing unit operable to decrypt an encrypted digital content corresponding to the digital content, the encrypted digital content being encrypted using the device key stored in the secret information storage unit;

an index information storage unit operable to store index information, the index information indicating the device key stored in the secret information storage unit, and the index information being stored in the index information storage unit such that the index information can be accessed from outside of the content reproduction apparatus;

a video output unit operable to connect to a display apparatus that is distinct from the content reproduction apparatus;

an instruction receiving unit operable to receive, from outside of the content reproduction apparatus, an instruction for outputting the index information from the index information storage unit;

a video processing unit operable to convert the index information stored in the index information storage unit into a data format that is displayable on a screen of the display apparatus; and

an index information output unit operable to output, via the video output unit, the index

information converted by the video processing unit, the index information converted by the video processing unit being output to the display apparatus based on the instruction received by the instruction receiving unit.

Claim 2 (Previously Presented) The content reproduction apparatus according to Claim 1,

wherein the index information stored in the index information storage unit is encrypted according to a predetermined cryptographic method, and

wherein the index information output unit includes:

a decryption unit operable to decrypt, based on the instruction, the encrypted index information stored in the index information storage unit according to the predetermined cryptographic method; and

an output unit operable to output the index information decrypted by the decryption unit to the display apparatus.

Claim 3 (Previously Presented) The content reproduction apparatus according to Claim 1,

wherein the index information stored in the index information storage unit is encrypted according to a predetermined cryptographic method, and

wherein the index information output unit outputs, based on the instruction, the encrypted index information stored in the index information storage unit to the display apparatus.

Claim 4 (Previously Presented) The content reproduction apparatus according to Claim 1, further comprising an authentication data storage unit operable to store authentication data that is obtained by performing a predetermined conversion on the index information.

Claim 5 (Previously Presented) The content reproduction apparatus according to Claim 1, wherein the instruction receiving unit reads a program for executing the instruction, the program being read from a removable recording medium on which the program is recorded, and wherein the index information output unit outputs the index information stored in the index information storage unit to the display apparatus, the index information being output by executing the read program.

Claim 6 (Previously Presented) The content reproduction apparatus according to Claim 5, wherein on the recording medium, a unique identification number is recorded, wherein the instruction receiving unit reads the program and the identification number from the removable recording medium on which the program is recorded, and wherein the index information output unit outputs, to the display apparatus, the index information stored in the index information storage unit, the index information being output by executing the read program only when the identification number satisfies a predetermined condition.

Claim 7 (Previously Presented) The content reproduction apparatus according to Claim 1, wherein the instruction receiving unit is operable to receive the instruction from a communication terminal via a computer network.

Claim 8 (Previously Presented) The content reproduction apparatus according to Claim 1, wherein the instruction receiving unit is operable to receive the instruction from a debug

apparatus connected to the content reproduction apparatus.

Claim 9 (Cancelled)

Claim 10 (Previously Presented) The content reproduction apparatus according to Claim 1, wherein the index information stored in the index information storage unit is encrypted according to a predetermined cryptographic method, and wherein the display apparatus displays the encrypted index information.

Claim 11 (Cancelled)

Claim 12 (Cancelled)

Claim 13 (Previously Presented) A content reproduction system which reproduces a digital content, the content reproduction system comprising:
a content reproduction apparatus which reproduces the digital content; and
a user authentication server which performs user authentication,
wherein the content reproduction apparatus includes:
a secret information storage unit operable to store a device key, the device key corresponding to the content reproduction apparatus, and the device key being stored in the secret information storage unit such that the device key cannot be accessed from outside of the content reproduction apparatus;
a cryptographic processing unit operable to decrypt an encrypted digital content

corresponding to the digital content, the encrypted digital content being encrypted using the device key stored in the secret information storage unit;

an index information storage unit operable to store index information, the index information indicating the device key stored in the secret information storage unit, and the index information being stored in the index information storage unit such that the index information can be accessed from outside of the content reproduction apparatus;

a video output unit operable to connect to a display apparatus that is distinct from the content reproduction apparatus;

a user identification information transmission unit operable to transmit user identification information to the user authentication server;

an instruction receiving unit operable to receive, from the user authentication server, an instruction for outputting the index information from the index information storage unit;

a video processing unit operable to convert the index information stored in the index information storage unit into a data format that is displayable on a screen of the display apparatus; and

an index information output unit operable to output, via the video output unit, the index information converted by the video processing unit, the index information converted by the video processing unit being output to the display apparatus based on the instruction received by the instruction receiving unit, and

wherein the user authentication server includes:

a user authentication unit operable to perform user authentication based on the user identification information received from the content reproduction apparatus; and

an instruction transmission unit operable to transmit the instruction to the content reproduction apparatus, based on a result of the authentication performed by the user authentication unit.

Claim 14 (Previously Presented) A method for controlling a content reproduction apparatus, the content reproduction apparatus storing a device key that corresponds to the content reproduction apparatus, the device key being stored in the content reproduction apparatus such that the device key cannot be accessed from outside of the content reproduction apparatus, the content reproduction apparatus decrypting an encrypted digital content using the stored device key to reproduce a digital content, the content reproduction apparatus storing index information that indicates the stored device key, and the index information being stored in the content reproduction apparatus such that the index information can be accessed from outside of the content reproduction apparatus, and the content reproduction apparatus being connected to a display apparatus that is distinct from the content reproduction apparatus, the method comprising:

receiving, from outside of the content reproduction apparatus, an instruction for outputting the index information from an index information storage unit of the content reproduction apparatus;

converting the stored index information into a data format that is displayable on a screen of the display apparatus, the stored index information being converted based on the received instruction; and

outputting the converted index information to the display apparatus.

Claim 15 (Previously Presented) A computer-readable recording medium having a program recorded thereon, the program being used in a content reproduction apparatus, the content reproduction apparatus storing a device key that corresponds to the content reproduction apparatus, the device key being stored in the content reproduction apparatus such that the device key cannot be accessed from outside of the content reproduction apparatus, the content reproduction apparatus decrypting an encrypted digital content using the stored device key to reproduce a digital content, the content reproduction apparatus storing index information that indicates the stored device key, and the index information being stored in the content reproduction apparatus such that the index information can be accessed from outside of the content reproduction apparatus, the content reproduction apparatus being connected to a display apparatus that is distinct from the content reproduction apparatus, and the program causing the content reproduction apparatus to execute a method comprising:

receiving, from outside of the content reproduction apparatus, an instruction for outputting the index information from an index information storage unit of the content reproduction apparatus;

converting the stored index information into a data format that is displayable on a screen of the display apparatus, the stored index information being converted based on the received instruction; and

outputting the converted index information to the display apparatus.

Claim 16 (Cancelled)